



#5  
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OIEP

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/954,531

DATE: 05/02/2002 P.S  
TIME: 17:17:23

Input Set : F:\Avalon-77.txt

Output Set: N:\CRF3\05022002\I954531.raw

5 <110> APPLICANT: Weaver, Zoe  
 7 <120> TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using  
 Cancer  
 8 Gene Sets  
 10 <130> FILE REFERENCE: 689290-77  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/954,531  
 C--> 12 <141> CURRENT FILING DATE: 2002-05-02  
 12 <150> PRIOR APPLICATION NUMBER: US/60/233,133  
 13 <151> PRIOR FILING DATE: 2000-09-18  
 15 <150> PRIOR APPLICATION NUMBER: US/60/234,009  
 16 <151> PRIOR FILING DATE: 2000-09-20  
 18 <150> PRIOR APPLICATION NUMBER: US/60/234,034  
 19 <151> PRIOR FILING DATE: 2000-09-20  
 21 <150> PRIOR APPLICATION NUMBER: US/60/234,509  
 22 <151> PRIOR FILING DATE: 2000-09-22  
 24 <150> PRIOR APPLICATION NUMBER: US/60/234,567  
 25 <151> PRIOR FILING DATE: 2000-09-22  
 27 <160> NUMBER OF SEQ ID NOS: 1392  
 29 <170> SOFTWARE: PatentIn version 3.0  
 31 <210> SEQ ID NO: 1  
 32 <211> LENGTH: 326  
 33 <212> TYPE: DNA  
 34 <213> ORGANISM: Homo sapiens  
 36 <400> SEQUENCE: 1  
 37 gcgcacccgg ttcagctcgc ctttcttggc cagagggccc ggttggactc acgggcgggg 60  
 39 catgatggtg gtgggtacgg gcacctcgct ggcgtctccc tccctcctgt ccctgctgct 120  
 41 ctttctctgg atgcagatgt acagccgtca gctggcctcc accgagtggc tcaccatcca 180  
 43 gggcggcctg cttgggttcgg gtctcttcgt gttctcgtc actgccttca ataattctgga 240  
 45 gaatcttgtc ttgggcaaag gattccaagc aaagatcttc cctgagattc tctgtgct 300  
 47 cctgttggct ctctttgcat ctggcc 326  
 50 <210> SEQ ID NO: 2  
 52 <211> LENGTH: 335  
 54 <212> TYPE: DNA  
 56 <213> ORGANISM: Homo sapiens  
 60 <400> SEQUENCE: 2  
 61 acagaaaata tagccatgat tgaaatcaaa tagtaaaggc tgttctggct ttttatcttc 60  
 63 ttagctcatc ttaaataagt agtacacttt ggatgcagtt cgttctgaag tgctaatacag 120  
 65 ttgtaacaat agcacaatc gaacttagga tttgtttctt ctcttctgtg ttctgatttt 180  
 67 tgatcaattc ttttaatttg taagcctata atacagtttc tattctttga gataaaaaatt 240  
 69 aaatgatcac tgatatattta gtcattcttg cttctcatct aaatatttcc atattctgta 300  
 71 ttaggagaaa attaccctcc cagcaccagt ctcc 335  
 74 <210> SEQ ID NO: 3  
 76 <211> LENGTH: 235  
 78 <212> TYPE: DNA

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80 <213> ORGANISM: Homo sapiens
84 <400> SEQUENCE: 3
85 cccagtgcac tcgcatgcgt ggacgctgtg tggagagtcc aggatgacgg gatccccgcac      60
87 aagctccctt cagtccttca gggctgggca tgtggttgat ttttctaaag ctggagaaaag      120
89 gaagaattgt gccttgcata ttacttgagc ttaaaactgac aacctggatg taaataggag      180
91 cctttctact ggtttattta ataaagtctt atgtgatttt ttaaaaaaga aaaaa      235
94 <210> SEQ ID NO: 4
96 <211> LENGTH: 308
98 <212> TYPE: DNA
100 <213> ORGANISM: Homo sapiens
104 <400> SEQUENCE: 4
105 accagttgga cattgttttt ttctggttat cctgtcctgc cttactatga gatttacgga      60
107 tgtttgggga cacaggtctc tgggtcatt tctttttctg aggattcata taattgccta      120
109 gtttttggt tagaggttg tcttccctg gtttaaatgat gcttttgttc agactgtcct      180
111 ctaggacttg aatttgaagc agaaacagaa cagcacctga tcttcagtta tactgcaaag      240
113 cagggcctca gaaagggtaa ctccaattac tgactttcac ctaagggtgaa aaagcatccg      300
115 gcttcttt      308
118 <210> SEQ ID NO: 5
120 <211> LENGTH: 486
122 <212> TYPE: DNA
124 <213> ORGANISM: Homo sapiens
128 <400> SEQUENCE: 5
129 tttttttttt gctgtaggca ccattctgca tcttgaaccc agactgaagt gtgcctctca      60
131 cagatggaag gtgcacacgc tctgtctcc tctcactct gccacgttca cttggctttt      120
133 tcattggtac ctagggaattt aagaatatcg aagcgagaca cgtaacaaac catagatgag      180
135 cagactccca caccgggttt tcttgcccg ttttaaggca ctgtttctaa attttgaact      240
137 tagctctgaa tccccaaaga cttgagcaca gcaagggttg ctgagctgct gtcgccgcag      300
139 cctggccccc tgggtgctgga gctgcagcac ctttgggaga ggtcctgcgt cgtcctcagc      360
141 tgcgtcgtcg tgaactcccg ctctccactg tgttctcag tgtctgcttt tcaggaagtc      420
143 tgcgtgacc tttgccaac ttctgagctc ctgagggact aggaacaatt tcagtagctt      480
145 tgccct      486
148 <210> SEQ ID NO: 6
150 <211> LENGTH: 379
152 <212> TYPE: DNA
154 <213> ORGANISM: Homo sapiens
158 <400> SEQUENCE: 6
159 ggaggaggcc cctgtgagcc cactctggaa cccttcctgg aacctccct actctgtccc      60
161 cctacagaca accaagcact aatcccccta gtaccaagaa aggggagcca ggatttagtc      120
163 ctggcccagc ccagagctgg gacctggagc acgatctgtt gacttccctg ggtaggacac      180
165 tgccacctct gggctcaggt cctcatgcct ccaaattggca tctagagttt gagcagcctt      240
167 cttggctgag gcaggcctag cctgtggagc gggctagggc caggagcatt tgggtgccct      300
169 ccatgttgca atgcaaacac cttcaccact ggggcagtgg ggagagatgg ctatattaat      360
171 aaaataacgt gtgtctttc      379
174 <210> SEQ ID NO: 7
176 <211> LENGTH: 456
178 <212> TYPE: DNA
180 <213> ORGANISM: Homo sapiens
184 <400> SEQUENCE: 7
185 catatataca tgcagtctgc ttgattatca gcaaaatggt cagcctttat cagatagttt      60

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187 cttcatgtgg agttcatctg catgtggccc ttactctgaa gcctcttctt gatctggagc 120
189 cacagtctgt ctgtcttcca gttcatctca gtcctcgaga aaggcccttt aaatatgtca 180
191 ctttccattt ttcccttaac catgggttgt gtgagccaga aagagctttg agaaagatgg 240
193 ctgcttccac caggggtggag gcttctaggt ctgcatgatg atggggcccg tttctggcca 300
195 gaggggtggc ctgggagcag ttgtgctgcg ggcttgctgg gggagaactc taactgttgc 360
197 agaaacagag cttcatggct tgcttaaatt acttagctgg aatattttta agtgtcagat 420
199 aatgtgatgt acaaagagag tatgccgatg catttc 456
202 <210> SEQ ID NO: 8
204 <211> LENGTH: 303
206 <212> TYPE: DNA
208 <213> ORGANISM: Homo sapiens
212 <220> FEATURE:
214 <221> NAME/KEY: misc_feature
216 <222> LOCATION: (1)...(303)
218 <223> OTHER INFORMATION: n=a,t,g or c
222 <400> SEQUENCE: 8
223 gatccagcgg cagtgcacaga atccaaagag ggaacagagg catcagcatc gaaggggctg 60
225 gagaagaaaag agaaatgatg cagctgggtgc ccgagcctct cagggccaga ccagacagat 120
W--> 227 gggggctggg cccacacagg cgtgcaccgg gtagagngca caggtaggcc aaggggnagc 180
W--> 229 tcccaggaca gggcaagggg gcagcangga tacctgcnag ccaggggctc tntggcctnt 240
W--> 231 nttttcttan tccntttttt tggcccttct tttttntntg ccgtacancn tgcaggcaaa 300
W--> 233 agn 303
236 <210> SEQ ID NO: 9
238 <211> LENGTH: 297
240 <212> TYPE: DNA
242 <213> ORGANISM: Homo sapiens
246 <220> FEATURE:
248 <221> NAME/KEY: misc_feature
250 <222> LOCATION: (1)...(297)
252 <223> OTHER INFORMATION: n=a,t,g or c
256 <400> SEQUENCE: 9
W--> 257 ctttttttca ggttaaatat ataattncaa gtgcttttaa tgaacttatt ttttaattggc 60
W--> 259 tagggagcaa aaaataagtn agtnctgctt ttagttagtt aaccttgctc ttttcttaaa 120
W--> 261 tagtacctg catgggtattt aatattccag gaagcatggg atttnatttt gcttgatttg 180
263 ggcacatgaa ataatagctc taggaaaatg cgcactctaa tgactctttg taaagagagg 240
265 catttcttac aactgtgatg ttgtcttaca taaaagttac ctcataagtt aattcta 297
268 <210> SEQ ID NO: 10
270 <211> LENGTH: 363
272 <212> TYPE: DNA
274 <213> ORGANISM: Homo sapiens
278 <220> FEATURE:
280 <221> NAME/KEY: misc_feature
282 <222> LOCATION: (1)...(363)
284 <223> OTHER INFORMATION: n=a,t,g or c
288 <400> SEQUENCE: 10
289 attttctcca cctttgttta tatggtaaag gaatcctttt cagctgccag ttttgaataa 60
291 tgaatatcat attgtatcat caatgctgat attttaactg agttggctct taggtttaag 120
W--> 293 atggataaat gaatatcact acttgctctg aaaacagggt tgttgctttt natctcgtg 180
295 cctagattga aatattttgc tattttctct gcataagtga cagtgaacca attcatcatg 240

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297 agtaagctcc cttctgtcat ttctattgat ttaatttggtg tatcatcaat aaaattgtat 300
299 gttaaatgctg gaaagaaaaa aagaagaaaag aaagaaacca tccctgtcct tcagtttata 360
301 atc 363
304 <210> SEQ ID NO: 11
306 <211> LENGTH: 335
308 <212> TYPE: DNA
310 <213> ORGANISM: Homo sapiens
314 <220> FEATURE:
316 <221> NAME/KEY: misc_feature
318 <222> LOCATION: (1)...(335)
320 <223> OTHER INFORMATION: n=a,t,g or c
324 <400> SEQUENCE: 11
325 ctagaataaaa ggggttgatt agtctgaaca gtactaatta actacaaaat aaacgttagt 60
W--> 327 gantcagcct cttcctctat aaacaatgac caattagacg tttccgtaat tccatgtatt 120
329 atgtatagta cactctataa atgtaaatgt aatgcttgct taaaaagtgc aatttattgt 180
331 acattgtccc aacaaatgtt tacttttata atcgttatga acttgaattg gattagtatc 240
333 ttgtttttat gtgtgaatga agccttgtga aataacaaat gcaactgaga aggtacaagg 300
335 tgactgtttt tgtgagccag tgatgttttc aatgc 335
338 <210> SEQ ID NO: 12
340 <211> LENGTH: 1522
342 <212> TYPE: DNA
344 <213> ORGANISM: Homo sapiens
348 <400> SEQUENCE: 12
349 aaaagaggaa accaaccctt aagatgagct ttccatgtaa atttgtagcc agcttccttc 60
351 tgattttcaa tgtttcttcc aaaggtgcag tctccaaaga gattacgaat gccttggaaa 120
353 cctggggtgc cttgggtcag gacatcaact tggacattcc tagttttcaa atgagtgatg 180
355 atattgacga tataaaatgg gaaaaaactt cagacaagaa aaagattgca caattcagaa 240
357 aagagaaaaga gactttcaag gaaaaagata catataagct atttaaaaaat ggaactctga 300
359 aaattaagca tctgaagacc gatgatcagg atatctataa ggtatcaata tatgatacaa 360
361 aaggaaaaaaa tgtgttgga aaaatatgtt atttgaagat tcaagagagg gtctcaaaac 420
363 caaagatctc ctggacttgt atcaacacaa ccctgacctg tgaggtaatg aatggaaactg 480
365 accccgaatt aaacctgtat caagatggga aacatctaaa actttctcag agggtcacatca 540
367 cacacaagtg gaccaccagc ctgagtgtgcaa aattcaagtgt cacagcaggg aacaaagtca 600
369 gcaaggaatc cagtgtcgag cctgtcagct gtccagagaa aggtctggac atctatctca 660
371 tcattggcat atgtggagga ggcagcctct tgatggtctt tgtggcactg ctcgttttct 720
373 atatcaccaa aaggaaaaaa cagaggagtc ggagaaatga tgaggagctg gagacaagag 780
375 cccacagagt agctactgaa gaaaggggccc ggaagcccca ccaaattcca gcttcaaccc 840
377 ctcagaatcc agcaacttcc caacatcctc ctccaccacc tggtcacgtg tcccaggcac 900
379 ctagtcatcg tccccgcct cctggacacc gtgttcagca ccagcctcag aagaggcctc 960
381 ctgctccgtc gggcacacaa gttcaccagc agaaaggccc gccctcccc agacctcgag 1020
384 ttcagccaaa acctcccatg gggcagcaga aaactcattg tccccctcct ctaattaaaa 1080
386 aagatagaaa ctgtcttttt caataaaaag cactgtggat ttctgccctc ctgatgtgca 1140
388 tatccgtact tccatgaggt gttttctgtg tgcagaacat tgtcacctcc tgaggctgtg 1200
390 ggccacagcc acctctgcat ctctgaactc agccatgtgg tcaacatctg gagtttttgg 1260
392 tctcctcaga gagctccatc acaccagtaa ggagaagcaa tataagtgtg attgcaagaa 1320
394 gtgtagagga ccgagccaga aatcttagag atttcttgct ccctctcagg tcatgtgtag 1380
396 atgcgataaa tcaagtgtt ggtgtgcctg ggtctcacta caagcagcct atctgcttaa 1440
398 gagactctgg agtttcttat gtgccctggg ggacacttgc ccaccatcct gtgagtaaaa 1500
400 gtgaaataaaa agctttgact ag 1522

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403 <210> SEQ ID NO: 13
405 <211> LENGTH: 531
407 <212> TYPE: DNA
409 <213> ORGANISM: Homo sapiens
413 <220> FEATURE:
415 <221> NAME/KEY: misc_feature
417 <222> LOCATION: (1)...(531)
419 <223> OTHER INFORMATION: n=a,t,g or c
423 <400> SEQUENCE: 13
424 ttaaagattg gcaatgtatg tgagagtatg catatgtatg ggtgtgtgtg tgtgcgcgca      60
426 atcaaactgt ggtgtaaata gattctcagt gaattctggt attcagactc tattccacta      120
428 gtgaaagaac catTTTTTaa acttcccttg cctTTTTTat ttatttaatt ttcttggttt      180
430 ggagatgtca gtcccaaaca ccagagtctg tacttttcta taacacagct cagattaagg      240
432 tagggcatat gcaacggagg ttctcacctc cctaaagaag ggacttgaat tttagggact      300
434 ttaattcacc cctccttcaa tacaactttc ccccttcttg ttgacacatg ccaagataac      360
436 tgcttttatg caggctgtac ccccttgaaa aatcctttct acagtgtctg tcacaaaaga      420
W--> 438 gccaagtgc ggcctcctac ccggnattgc tgacttgaat tcanagtcgc cgagtctacc      480
W--> 440 tagctttctt ggaagcagtc tcgcaaaatn tctatttgn cgtcactaat g          531
443 <210> SEQ ID NO: 14
445 <211> LENGTH: 381
447 <212> TYPE: DNA
449 <213> ORGANISM: Homo sapiens
453 <400> SEQUENCE: 14
454 gatatttgaa tttagcaggt ggagtttcat agtaaaaaca gcttttgact cagctttgat      60
456 ttatcctcat ttgatttggc cagaaagtag gtaatatgca ttgattggct tctgattcca      120
458 attcagtata gcaagggtgct aggttttttc ctttccccac ctgtctotta gcctggggaa      180
460 ttaaatgaga agccttagaa tgggtggccc ttgtgacctg aaacacttcc cacataagct      240
462 acttaacaag attgtcatgg gagctgcaga ttccattgcc caccaaagac taggaacaca      300
464 cacatatcca tacaccaaag ggaaaggaca atttctggaa atgctgtttc ttctgggtgg      360
466 gttccctctt ctgggcttgc t          381
469 <210> SEQ ID NO: 15
471 <211> LENGTH: 2894
473 <212> TYPE: DNA
475 <213> ORGANISM: Homo sapiens
479 <220> FEATURE:
481 <221> NAME/KEY: misc_feature
483 <222> LOCATION: (1)...(2894)
485 <223> OTHER INFORMATION: n=a,t,g or c
489 <400> SEQUENCE: 15
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492 ggtccccgag gtcagccgag atttctcagg tccctccggc cccctccctg gattccacag      120
494 cgctccggt gtccagagga tcggacacgg cccggcccgg ccatggcctc gttgctgaag      180
496 gtggatcagg aagtgaagct caaggttgat tctttcaggg agcggatcac aagtaaggca      240
498 gaagacttgg tggcaaatTT tttcccaaag aagttattag aacttgatag ttttctgaag      300
500 gaaccaatct taaacatcca tgacctaaact cagatccact ctgacatgaa tctcccagtc      360
502 cctgacccca ttcttctcac caatagccat gatggactgg atgggtccac ttataagaag      420
504 cgaagggttg atgagtgtga agaagccttc caaggaaacca aggtgtttgt gatgccaat      480
506 gggatgctga aaagcaacca gcagctgggtg gacattattg agaaagtga acctgagatc      540
508 cggctgttga ttgagaaatg taacacgcct tcaggcaaag gtcctcatat atgttttgac      600

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Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

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Input Set: F:\Avalon-77.txt

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:120  
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:180  
L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:240  
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:300  
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:60  
L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:120  
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:120  
L:327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:60  
L:438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:420  
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:480  
L:564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:2220  
L:580 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:2700  
L:882 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:60  
L:884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:120  
L:886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:180  
L:888 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:240  
L:892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:360  
L:894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:420  
L:944 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0  
L:1024 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:540  
L:1026 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:600  
L:1102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:60  
L:1178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:360  
L:1180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:420  
L:1298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:420  
L:1300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:480  
L:1302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:540  
L:1330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:120  
L:1332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:180  
L:1334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:240  
L:1776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:60  
L:1824 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0  
L:2590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:300  
L:2614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:0  
L:2622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:240  
L:2624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:300  
L:2626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:360  
L:2680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:120  
L:2686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:300  
L:2688 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:360  
L:2856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:0  
L:2858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:60  
L:2864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:240  
L:2868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:360  
L:2904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:360

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L:3340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:0  
L:3374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113 after pos.:0  
L:3376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113 after pos.:60  
L:3378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113 after pos.:120